

REV:	ENGINEERING DATA REQUIREMENTS (ATTACHMENT "A")	
NOTE: MILITARY SPECIFICATIONS /STANDARDS WILL NOT BE FURNISHED IN THE BID SET.		
1. THE FOLLOWING INSTRUCTIONS ARE FURNISHED FOR THE MANUFACTURE OF CAP DRIVE, ANTISKID - WHEEL MLG		
2. PART NUMBER 16L107-9	3. NATIONAL STOCK NUMBER 1630-01-044-8890	
4. THE FOLLOWING SPECIFICATIONS/STANDARDS, ETC., WILL BE USED IN LIEU OF THE DATA INDICATED. THE SUPERSEDED DATA WILL NOT BE FURNISHED UNLESS SO INDICATED.		
5. PER DRAWING REQUIREMENTS, PERFORM FLUORESCENT PENETRANT INSPECTION PER ASTM E 1417, TYPE I, METHOD B OR C, LEVEL 3 OR 4 IN LIEU OF IT-32.2 WITH THE FOLLOWING ACCEPTANCE/REJECTION CRITERIA: <u>NO DEFECTS ALLOWED</u> . THE INTENT OF <u>NO DEFECTS ALLOWED</u> IS THAT THE INSPECTION IS CONDUCTED AT THE REQUIRED SENSITIVITY LEVEL AND THERE SHALL BE NO INDICATIONS ALLOWED. THE INSPECTOR PERFORMING THE INSPECTION SHALL BE CERTIFIED TO LEVEL II WITH THE INSPECTION PROCEDURE DEVELOPED BY A LEVEL III AS SPECIFIED IN NAS-410.		
6. <u>NOTE</u> : ONLY THOSE FACILITIES THAT HAVE SUCCESSFULLY COMPLETED THE PRODUCTION PENETRANT DEMONSTRATION PROGRAM AND ARE LISTED IN THE CURRENT REVISION OF FQPL-1101 CAN PERFORM NDTs-1101 INSPECTION TO ZONES 1A, 1B, 1C. THE FOLLOWING ACCEPTANCE/REJECTION CRITERIA WILL BE USED FOR ALL OTHER ZONES AS LISTED BELOW.		
(1) ZONE 0 AND ZONE 1: ROUNDED DISCONTINUITIES EQUAL TO OR EXCEEDING 0.02 INCHES SHALL BE REJECTED.		
(2) ZONE 2: (EXCEPT FOR CAST SURFACES) ROUNDED DISCONTINUITIES EQUAL TO OR EXCEEDING 0.03 INCHES SHALL BE REJECTED.		
(3) ZONE 2: (CAST SURFACES) ROUNDED DISCONTINUITY EQUAL TO OR EXCEEDING 0.03 INCHES SHALL BE REJECTED.		
(4) ZONE 3: THIS ZONE HAS BEEN RESERVED FOR FUTURE USE.		
(5) ZONE 4: THIS ZONE IS INTENDED FOR INSPECTION OF RAW MATERIALS SURFACES, I.E. AS FORGED, AS ROLLED, ETC. DISCONTINUITIES RESULTING FROM SURFACE IMPERFECTIONS WHICH ARE PERMITTED BY THE PROCUREMENT SPECIFICATION ARE ACCEPTABLE.		
(6) ZONE 5: THIS ZONE IS INTENDED FOR AREAS WHERE SUBSEQUENT PROCESSING SUCH AS MACHINING, ETCHING, GRINDING, ETC. WILL BE USED TO REMOVE SURFACE MATERIAL. DISCONTINUITIES RESULTING FROM ROUGH SURFACES, MINOR POTTING, ETC. SHALL NOT BE CAUSE FOR REJECTION PROVIDING THE CONDITIONS ARE REMOVABLE WITHIN DRAWING TOLERANCES.		
PREPARED BY JOAN HYATT	SYMBOL LGMPM	DATE 5 Oct 01

REV:	ENGINEERING DATA REQUIREMENTS CONTINUATION SHEET (ATTACHMENT "A")	
PART NUMBER 16L107-9	NATIONAL STOCK NUMBER 1630-01-044-8890	
<p>(7) ZONE 6: THIS ZONE IS INTENDED FOR AS-CASE SURFACES WHICH REMAIN ON THE FINISHED PART OF AIRCRAFT QUALITY CASTINGS. USE THE ACCEPT/REJECT CRITERIA AS FOR ZONE 22 (CAST SURFACES).</p> <p>NOTE: WHEN NO ZONE NUMBER IS SPECIFIED ON THE ENGINEERING DRAWING, ZONE 0 SHALL BE USED AS ACCEPT/REJECT CRITERIA FOR ROUNDED DISCONTINUITIES. LINEAR DEFECTS ARE NOT ALLOWED WHETHER VISIBLE UNDER WHITE OR BLACK LIGHT. LINEAR INDICATIONS ARE LINEAR IN SHAPE AND HAVE A LENGTH THREE TIMES OR GREATER THAN THE WIDTH.</p> <p>FOR A ROUNDED INDICATION TO BE REJECTABLE, IT MUST BE VISIBLE UNDER BLACK LIGHT. FOR DISCONTINUITIES THAT TOUCH THE CONGLOMERATE SIZE SHALL BE CONSIDERED AS ONE DISCONTINUITY. DISCONTINUITIES WHOSE SEPARATION DISTANCE IS EQUAL TO OR CLOSER THAN ZONE CRITERIA SIZE AND WHICH ARE VISIBLE UNDER BLACK LIGHT, SHALL BE REJECTED REGARDLESS OF INDIVIDUAL SIZE.</p> <p>7. THE REQUIRED CASTING WILL BE PROCURED FROM THE QUALIFIED CASTING SOURCE USING THE ORIGINAL CASTING PROCEDURES AND TOOLING.</p> <p style="margin-left: 40px;">A. PRIOR TO CONTRACT AWARD, THE DETAIL PART BIDDER WILL PROVIDE CERTIFICATION FROM THE CASTING SOURCE TO THE GOVERNMENT THAT THE CERTIFIED TOOLING AND CASTING PROCEDURES ARE AVAILABLE AND THAT THE CASTING SOURCE HAS AN AGREEMENT WITH THE DETAIL PART BIDDER TO PROVIDE CASTINGS FOR THEIR USE IN THE EVENT THEY ARE THE SUCCESSFUL BIDDER.</p> <p style="margin-left: 40px;">B. PRIOR TO PRODUCTION, CASTING LOT QUALIFICATION TO BE ACCOMPLISHED AS SPECIFIED ON THE CASTING DRAWING AND AMS 5355. THE CONTRACTOR WILL ASSURE THAT THIS IS OR HAS BEEN ACCOMPLISHED BY THE CASTING SOURCE AND WILL SUBMIT DOCUMENTATION OF ACCOMPLISHMENT TO THE GOVERNMENT.</p> <p>8. CASTING SOURCE, CONTROL AND LOCATION OF TOOLING:</p> <p style="margin-left: 40px;">A. CASTING DRAWING: 16L107-7</p> <p style="margin-left: 40px;">B. CONTROL OF CASTING PROCESS: LOCKHEED</p> <p style="margin-left: 40px;">C. LOCATION OF CASTING TOOLING:</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>SOLIDFORM INC. P.O. BOX 7656 3928 LAWNWOOD FT. WORTH, TX 76111-6539 (817) 831-2626 DIE #: 4283 CAGE: 1CR64 ATTN: BOB HOLMES</p> </div> <div style="width: 45%;"> <p>PRIME ALLOY AND ALUMINUM 717 INDUSTRIAL AVE. PORT HUENEME, CA 93041 (805) 488-6451 CAGE: 60600 ATTN: ELAINE X 4121</p> </div> </div>		
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<p>9. FPS-1001 AND FPS-1082 AND ALL CASTING NOTES WILL BE COMPLETED BY THE CASTING VENDOR.</p> <p>10. FPS-3001 IS NOT PROVIDED, FINISH PER THE FOLLOWING:</p> <p>A. CLEAN AND CHEMICAL FILM ALL SURFACES PER MIL-C-5541.</p> <p>B. APPLY ONE COAT PRIMER PER MIL-PRF-85582 WATER REDUCIBLE PRIMER ON EXPOSED SURFACES AND TWO COATS ON REMAINING SURFACES.</p> <p>C. APPLY TWO COATS OF MIL-PRF-85285 URETHANE COATING, BLACK, COLOR 37038 ON SPECIFIED SURFACES.</p> <p>11. MARK AND IDENTIFY PER MIL-STD-130 IN LIEU OF FPS-3008.</p> <p>12. RIVETS PER AIA/NAS NAS 523 IN LIEU OF NAS523.</p> <p>13. AFTER CONTRACT AWARD, THE SUCCESSFUL BIDDER SHALL PROVIDE A COPY OF THE PROCESSING DOCUMENTATION (ROUTING DOCUMENTS AND PROCESS SPECIFICATIONS) TO LILE FOR FINAL REVIEW BEFORE PRODUCTION BEGINS.</p> <p>14. OO-ALC/LILE SYSTEM ENGINEERING RETAINS ALL RIGHTS TO REVIEW AND ACCEPT MRB'S PRIOR TO SHIPMENT OF DISCREPANT ITEMS. ALL DEVIATIONS, MINOR AND MAJOR, FROM THE ENGINEERING DRAWING PACKAGE WILL BE SUBMITTED FOR MRB DISPOSITION.</p> <p>15. PRIOR TO CONTRACT AWARD, THE CONTRACTOR WILL CERTIFY TO THE GOVERNMENT IN WRITING FULL COMPLIANCE WITH MANUALS, SPECIFICATIONS, AND STANDARDS CALLED OUT AND REQUIRED FOR THE MANUFACTURE OF THIS CONTRACTED COMPONENT/ASSEMBLY. CONTRACTOR IS RESPONSIBLE TO COMPLETELY SEARCH THESE MANUALS, SPECIFICATIONS, AND STANDARDS AND FULLY UNDERSTAND THE REQUIREMENTS NECESSARY TO MANUFACTURE LANDING GEAR COMPONENTS. ANY QUESTIONS CAN BE FORWARDED TO THIS OFFICE OO-ALC/LILE.</p>			
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INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as 'Provisioning', 'Configuration Management', etc.
- Item D. Enter name of system/item being acquired that data will
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g. Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- Item 14. Enter addresses and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use data shall be governed by the pertinent provisions of the contract.

SOURCE QUALIFICATION REQUIREMENTS
(PL98-525, SECTION 2319)

STOCK NR (NSN) 1630-01-044-8890
NOUN: Cap Drive, Anti-skid-Wheel, MLG

PART NUMBER (P/N) 16L107
AIRCRAFT: F-16

SECTION C

QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE:

1. Because of the need for uninterrupted item support to military aircraft systems while keeping with the requirements of PL 98-525, the current acquisition need not and generally will not be delayed to provide an offeror an opportunity to qualify. Normal acquisition practices at OO-ALC should preclude the denial of opportunity to any interested offeror.
2. The offeror must provide a pre-contract award qualification article, which meets the requirements of the engineering drawings, material specifications, and process specifications. However, successful completion of the qualification testing does not guarantee any contract award. If the offeror is deemed qualified and awarded the contract, a post-contract award first article exhibit may be required to verify production capability.
3. The qualification article will be subjected to form, fit, and function verification as well as required testing to assure compliance with data list and other applicable procurement criteria. The qualification article shall demonstrate full compatibility and comparability with existing parts.
4. The required materials will be procured from a qualified source and shall meet the requirements of their respective specifications. The offeror will assure that the supplier has accomplished this and shall submit certified documentation of accomplishment of the above requirements to the purchaser along with the pre-contract award qualification article.
5. The required castings shall be procured from the qualified casting source using the original certified casting procedures and tooling. Casting material and lot qualifications shall be accomplished as required in the specified forging drawing, P/N 16L107 and specification AMS 5355. The offeror shall assure that this is or has been accomplished by the casting source and will submit certified documentation of accomplishment of the above requirements to the government along with the pre-contract award qualification article.
6. The qualification article once submitted will become subject to such testing as deemed necessary by the U.S. Government to prove that the article meets all dimensional, processing and functional requirements. Such testing may result in the destruction of the article. Following completion of necessary testing and evaluation, the article no matter what its condition shall be returned to the contractor or disposed of at his discretion and direction whether it was found acceptable or not.
7. Form verification: The U.S. Government's Quality Verification Center (QVC) will be used to insure compliance with the dimensional requirements of the article. Material and processing compliance will also be verified as required.
8. Fit/function verification: Existing components and government test stands and fixtures will be utilized to verify physical interface and functional performance of articles.
9. Testing for material and process compliance.
 - (a) Material analysis
 - (b) Heat treat
 - (c) Grinding
 - (d) Plating
 - (e) Finish
 - (f) Other

SOURCE QUALIFICATION REQUIREMENTS
(PL98-525, SECTION 2319)

STOCK NR (NSN)1630-01-044-8890

NOUN: Cap Drive. Anti-skid-Wheel. MLG

PART NUMBER (P/N)16L107

AIRCRAFT: F-16

10. Remarks:

a. Organic verification capabilities exist at OO-ALC.

b. Testing requirements outside organic capabilities will be contracted out.

11. The estimated cost of government testing and evaluation is \$5,000.

12. Maximum time for testing of the qualification article will not exceed 30 days from receipt at testing agency.